

**WHAT IS CLAIMED IS:**

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- 4. A scroll compressor as recited in Claim 3, wherein said gear transmission provides a gear reduction.

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8 → 7. A scroll compressor as recited in Claim 3, wherein said gear transmission is provided between a shaft portion and an eccentric mounted between said shaft and said orbiting scroll.

8. A scroll compressor as recited in Claim 3, wherein said gear transmission is mounted between a motor rotor and a motor shaft.

9. A scroll compressor as recited in Claim 1, wherein said difference  
10 in rate is provided by a ratchet-type arrangement.

10. A scroll compressor as recited in Claim 9, wherein said ratchet-type arrangement provides rotation for an eccentric which drives said orbiting scroll through only a first portion of rotation of a motor shaft, and said crank does not move said orbiting scroll during a second portion of the rotation of said shaft.

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12. A scroll compressor comprising:
- a first scroll member having a base and a scroll wrap extending from said base;
  - a second scroll member having a base and a scroll wrap interfitting with said first scroll wrap;
  - a bi-directional rotary motor for driving said second scroll relative to said first scroll, said motor being driven in a forward direction and in a reverse direction, said motor being driven at a first speed in said forward and reverse directions; and
  - a mechanical transmission for driving said second scroll in said forward direction when said motor is driven in both said reverse and forward directions, and at a speed which approximates the speed of said motor when said motor is driven in said forward direction, and said transmission reducing the speed of movement of said second scroll when said motor is driven in said reverse direction.

13. A scroll compressor as recited in Claim 12, wherein said transmission includes a planetary gear transmission.

14. A scroll compressor as recited in Claim 13, wherein said planetary gear transmission is mounted between a shaft and an eccentric portion.

15. A scroll compressor as recited in Claim 13, wherein said planetary gear transmission is mounted between a shaft and a motor rotor.

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